

Supplementary material

Supplementary material A

Number of center in the training	Test Center	C1	C2	C3	C4
	Training	ME			
1	C1	0.32 ± 13.73	51.2 ± 18.4	11.5 ± 19.4	17.85 ± 17.02
	C2	-28.29 ± 13.8	4.8 ± 16.5	-29.1 ± 15.9	-17.6 ± 8.8
	C3	27.5 ± 27.1	83.6 ± 46.1	1.0 ± 20.3	60.0 ± 40.1
	C4	2.7 ± 15.4	45.9 ± 15.6	9.1 ± 18.5	18.65 ± 14.1
2	C1 & C2	-1.87 ± 15.4	0.43 ± 14.7	-17.0 ± 15.6	3.20 ± 10.4
	C1 & C3	0.54 ± 14.4	61.9 ± 27.5	-3.2 ± 15.3	20.9 ± 17.3
	C1 & C4	-0.52 ± 14.1	39.6 ± 14.6	-0.5 ± 15.1	14.4 ± 13.3
	C2 & C3	10.7 ± 19.1	8.9 ± 32.2	-6 ± 18.5	22.1 ± 18.5
	C2 & C4	-6.0 ± 15.5	16.8 ± 21.3	16.8 ± 21.3	16.1 ± 11.5
	C3 & C4	-0.5 ± 16.7	57.6 ± 20.9	-5.1 ± 16.6	20.6 ± 18.4
3	C1 & C2 & C3	-0.75 ± 16.0	6.2 ± 25.7	-12.1 ± 22.3	26.5 ± 1.3
	C1 & C2 & C4	-0.95 ± 15.9	4.0 ± 19.5	-2.5 ± 14.6	14.9 ± 11.7
	C1 & C3 & C4	-1.7 ± 15.8	30.6 ± 24.6	-5.9 ± 14.7	15.9 ± 20.1
	C2 & C3 & C4	-8.8 ± 19.9	5.3 ± 34.5	3.6 ± 20.0	9.9 ± 21.8
4	C1 & C2 & C3 & C4	-4.6 ± 13.8	4.6 ± 23.7	-13.4 ± 19.9	12.9 ± 17.7

Table 3. Table 2: ME results (in HU) comparing the reference CT with the synthetic-CTs in the whole pelvis for the different trainings. Rows represent the centers used for training and the columns represent the centers used for test. The values are the MEs between CT and sCT for all test patients associated to the standard deviation. Results in bold represent cases 1 (monocenter case) and 3 (multicenter with seen data case).

Supplementary material B

Number of center in the training	Training	PSNR			
	Test Center	C1	C2	C3	C4
1	C1	31.7 ± 1.1	24.9 ± 1.2	26.9 ± 3.8	25.9 ± 1.2
	C2	26.4 ± 0.6	25.9 ± 1.2	26.7 ± 3.1	25.2 ± 0.6
	C3	26.9 ± 1.1	23.6 ± 1.8	29.1 ± 2.2	24.0 ± 2.0
	C4	28.0 ± 1.0	24.6 ± 1.2	27.3 ± 3.5	26.8 ± 1.6
2	C1 & C2	31.2 ± 1.1	26.2 ± 1.4	27.6 ± 3.5	26.4 ± 1.3
	C1 & C3	31.5 ± 0.9	24.5 ± 1.5	29.1 ± 3.2	25.8 ± 1.1
	C1 & C4	31.6 ± 1.0	25.2 ± 1.1	27.3 ± 3.6	27.1 ± 1.3
	C2 & C3	27.9 ± 1.1	25.6 ± 1.3	29.2 ± 3.2	25.6 ± 0.9
	C2 & C4	28.6 ± 0.8	25.7 ± 1.4	-18.2 ± 18	27.1 ± 1.1
	C3 & C4	28.5 ± 1.1	24.7 ± 1.6	29.2 ± 3.1	26.9 ± 1.6
3	C1 & C2 & C3	31.1 ± 1.1	25.8 ± 1.4	30.8 ± 2.7	26.5 ± 1.3
	C1 & C2 & C4	31.1 ± 1.0	26.3 ± 1.2	28.3 ± 3.2	26.6 ± 1.4
	C1 & C3 & C4	31.3 ± 0.9	25.4 ± 1.3	29.1 ± 2.8	26.6 ± 1.3
	C2 & C3 & C4	28.9 ± 1.0	25.7 ± 1.6	30.0 ± 3.0	26.4 ± 0.9
4	C1 & C2 & C3 & C4	31.1 ± 0.9	25.8 ± 1.6	30.3 ± 2.9	26.5 ± 1.4

Table 4. Table 2: PSNR results (in dB) comparing the reference CT with the synthetic-CTs in the whole pelvis for the different trainings. Rows represent the centers used for training and the columns represent the centers used for test. The values are the PSNR between CT and sCT for all test patients associated to the standard deviation. Results in bold represent cases 1 (monocenter case) and 3 (multicenter with seen data case).